

XLINKS MOROCCO-UK POWER PROJECT

Preliminary Environmental Information Report

Volume 1, Chapter 5: Environmental Impact Assessment Methodology



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Glossary

Term	Meaning
Applicant	Xlinks 1 Limited.
Converter Site	The Converter Site is proposed to be located to the immediate west of the existing Alverdiscott Substation site in north Devon. The Converter Site would contain two converter stations (known as Bipole 1 and Bipole 2) and associated infrastructure, buildings and landscaping.
Converter station	Part of an electrical transmission and distribution system. Converter stations convert electricity from Direct Current to Alternating Current, or vice versa.
Cumulative effects assessment	Assessment of the likely effects arising from the Proposed Development alongside the likely effects arising from other proposed developments on the same receptor or resource.
Development Consent Order	An order made under the Planning Act 2008, as amended, granting development consent.
Duration (of impact)	The time over which an impact occurs. An impact may be described as short, medium or long-term and permanent or temporary.
Effect	The term used to express the consequence of an impact. The significance of effect is determined by correlating magnitude of the impact with the importance, or sensitivity, of the receptor or resource in accordance with defined significance criteria.
EIA Scoping Report	A report setting out the proposed scope of the Environmental Impact Assessment process.
Environmental Impact Assessment	The process of identifying and assessing the significant effects likely to arise from a project. This requires consideration of the likely changes to the environment, where these arise as a consequence of a project, through comparison with the existing and projected future baseline conditions.
Environmental Statement	The document presenting the results of the Environmental Impact Assessment process.
Frequency (of impact)	The number of times an impact occurs across the relevant phase/lifetime of a project.
Impact	Change that is caused by an action/proposed development, e.g., land clearing (action) during construction which results in habitat loss (impact).
Inter-related effects	Inter-related effects arise where an impact acts on a receptor repeatedly over time to produce a potential additive effect or where a number of separate impacts, such as noise and habitat loss, affect a single receptor.
Mitigation measures	The purpose of such measures is to avoid, prevent, reduce or, if possible, offset significant adverse environmental effects.
Planning Inspectorate	The agency responsible for operating the planning process for applications for development consent under the Planning Act 2008.
Preliminary Environmental Information Report	A report that provides preliminary environmental information in accordance with the Infrastructure Planning (Environmental Impact Assessment) Regulations 2017. This is information that enables consultees to understand the likely significant environmental effects of a project and which helps to inform consultation responses.
Proposed Development	The element of the Xlinks Morocco-UK Power Project within the UK, which includes the offshore cables (from the UK Exclusive Economic Zone to landfall), landfall site, onshore Direct Current and Alternating Current cables, converter stations, road upgrade works and, based on current assumptions, the Alverdiscott Substation Connection Development.
Receptor	The physical or biological resource or human user group that could be affected by the Proposed Development impacts.

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Term	Meaning
Reversibility	A reversible impact is one where recovery is possible naturally in a relatively short time period, or where mitigation measures can be effective at reversing the impact. An irreversible impact may occur when recovery is not possible within a reasonable timescale, or there is no reasonable chance of action being taken to reverse it.
Scoping Opinion	Sets out the Planning Inspectorate's response (on behalf of the Secretary of State) to the Scoping Report prepared by the Applicant. The Scoping Opinion contains the range of issues that the Planning Inspectorate, in consultation with statutory stakeholders, has identified should be considered within the Environmental Impact Assessment process.
Spatial extent	Geographical area over which the impact may occur.
Transboundary effects	Effects from a project within one state that affect the environment of another state(s).
Xlinks Morocco-UK Power Project	The overall scheme from Morocco to the national grid, including all onshore and offshore elements of the transmission network and the generation site in Morocco (referred to as the 'Project').

Acronyms

Acronym	Meaning
CEA	Cumulative Effects Assessment
DESNZ	Department for Energy Security and Net Zero
DMRB	Design Manual for Roads and Bridges
EEA	European Economic Area
EIA	Environmental Impact Assessment
EMF	Electromagnetic Field
ES	Environmental Statement
IEMA	Institute of Environmental Management and Assessment
PDE	Project Design Envelope
PEIR	Preliminary Environmental Impact Report
PIDs	Public Information Days
SWMP	Site Waste Management Plan
UK	United Kingdom

Units

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5 ENVIRONMENTAL ASSESSMENT METHODOLOGY

5.1 Introduction

- 5.1.1 This chapter of the Preliminary Environmental Information Report (PEIR) sets out the approach taken to the Environmental Impact Assessment (EIA) process to date, to identify and evaluate and mitigate the likely effects associated with the United Kingdom (UK) elements of the Xlinks Morocco-UK Power Project (referred to as the 'Project'). For ease of reference, the UK elements of the Project are referred to throughout as the Proposed Development.
- 5.1.2 Further details of topic-specific methodologies, such as survey methods, are provided in the relevant topic chapters in Volumes 2, 3 and 4 of the PEIR.

5.2 Legislative Context

- 5.2.1 As set out in Volume 1, Chapter 1: Introduction, of the PEIR, the legislative requirements for EIA for the Proposed Development are set by the Infrastructure Planning (Environmental Impact Assessment) Regulations 2017, as amended (referred to in this report as 'the 2017 EIA Regulations'). The 2017 EIA Regulations set out the requirements for EIA under the Planning Act 2008, as amended (referred to in this chapter as 'the Planning Act 2008').
- 5.2.2 This PEIR presents the preliminary findings of the EIA process in accordance with Regulation 12 of the 2017 EIA Regulations, which requires applicants to compile 'preliminary environmental information' for consultation. In particular, Regulation 12 and Schedule 4 of the 2017 EIA Regulations require that an applicant provides the following:
 - A description of the aspects of the environment likely to be significantly
 affected by the development, including, in particular, population, fauna, flora,
 soil, water, air, climatic factors, material assets, including the architectural and
 archaeological heritage, landscape and the inter-relationship between the
 above factors.
 - A description of the likely significant effects of the development on the environment, which should cover the direct effects and any indirect, secondary, cumulative, short, medium and long term, permanent and temporary, positive and negative effects of the development, resulting from:
 - the existence of the development;
 - the use of natural resources; and
 - the emission of pollutants, the creation of nuisances and the elimination of waste.
- 5.2.3 This PEIR has also considered the guidance provided within the Planning Inspectorate Advice Note Seven: Environmental Impact Assessment: Preliminary Environmental Information, Screening and Scoping (The Planning Inspectorate, 2020). In relation to Preliminary Environmental Information, Planning Inspectorate Advice Note Seven states that:

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'There is no prescribed format as to what PEI should comprise and it is not expected to replicate or be a draft of the ES. However, if the Applicant considers this to be appropriate (and more cost-effective) it can be presented in this way. A good PEI document is one that enables consultees (both specialist and nonspecialist) to understand the likely environmental effects of the Proposed Development and helps to inform their consultation responses on the Proposed Development during the pre-application stage.' (paragraph 8.4)

5.2.4 This PEIR provides the preliminary findings of the environmental assessment process and thus, it will be updated in the form of the Environmental Statement (ES) as the project evolves and in response to consultation and feedback. The ES will be submitted alongside the application for development consent in accordance with the 2017 EIA Regulations and Planning Inspectorate Advice Note Seven.

5.3 Scope of the Assessment

- 5.3.1 Scoping is the process of identifying the relevant topics to consider within the EIA process (establishing the scope of the assessment). Scoping is therefore an important preliminary procedure, which sets the context for the EIA process. Through scoping, the key environmental issues are identified at an early stage, which permits subsequent work to concentrate on those topics for which significant effects may arise.
- 5.3.2 The scoping process is iterative, informed by increasing knowledge acquired through the EIA process. The scoping process for the Proposed Development included the following:
 - Identification of an initial project description, including key components of the Proposed Development and their likely maximum parameters.
 - Review the requirements of the EIA Regulations whilst considering the project description (Volume 1, Chapter 3: Project Description of the PEIR) and characteristics of the surrounding environment to provide an initial indication of the topics likely relevant to the Proposed Development.
 - Refine the scope of assessment through the use of consultation and the findings of the initial assessment by topic specialists.
- 5.3.3 Whilst there is no formal requirement in the 2017 EIA Regulations to seek a Scoping Opinion prior to the submission of an application, it is best practice to do so.
- 5.3.4 In January 2024, Xlinks 1 Limited (the Applicant) submitted a Scoping Report to the Planning Inspectorate, which described the scope and methodology for the technical studies being undertaken to provide an assessment of any likely significant effects for the Proposed Development (Xlinks, 2024). It also described those topics or sub-topics proposed to be scoped out of the EIA process and justified as to why the Proposed Development would not have the potential to give rise to significant environmental effects in these topic areas.
- 5.3.5 Following consultation with the statutory bodies, the Planning Inspectorate (on behalf of the Secretary of State) provided a Scoping Opinion on 7 March 2024.
- 5.3.6 The scope of the EIA process for the Proposed Development, including the scope of this PEIR, has been informed by legislative requirements, the nature, size and

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location of the Proposed Development, the Scoping Opinion and stakeholder engagement undertaken to date.

- 5.3.7 Details of the key points raised in the Scoping Opinion and the way in which these have been addressed within this PEIR or will be addressed during the ongoing EIA process are provided in each topic chapter of the PEIR. These are also summarised within Volume 1, Appendix 5.1: Scoping Responses of the PEIR.
- 5.3.8 **Table 5.1** summarises the scope of the EIA process for the Proposed Development in the context of Regulation 14(2) requirements and Schedule 4 of the 2017 EIA Regulations.

Table 5.1: Summary of preliminary environmental information requirements (Regulation 14(2) and Schedule 4 of the 2017 EIA Regulations)

Required Information	Location within the PEIR		
Project Description	Project Description		
A description of the proposed development comprising information on the site, design, size and other relevant features of the development (Regulation 14(2)).	Volume 1, Chapter 3: Project Description provides a description of the Proposed Development and the parameters used for assessment within this PEIR. This includes details of the construction, operation and maintenance and		
A description of the development (Schedule 4, paragraph 1).	decommissioning phases.		
Consideration of Alternatives			
A description of the reasonable alternatives studied by the applicant, which are relevant to the proposed development and its specific characteristics, and an indication of the main reasons for the option chosen, taking into account the effects of the development on the environment (Regulation 14(2)).	Volume 1, Chapter 4: Need and Alternatives sets out details of the site selection undertaken to date. This includes a description of the alternatives considered by the Applicant, and the environmental aspects taken into account.		
A description of the reasonable alternatives studied by the developer (Schedule 4, paragraph 2).			
Baseline Conditions and Assessment of	Effects		
A description of the likely significant effects of the proposed development on the environment (Regulation 14(2)).	Details of the baseline environmental conditions, methodologies used, commitments and mitigation measures and likely effects are provided in each of the topic chapters set		
A description of any features of the proposed development, or measures envisaged in order to avoid, prevent or reduce and, if possible, offset likely significant adverse effects on the environment (Regulation 14(2)).	 out within Volumes 2, 3 and 4. Volume 2: Chapter 1: Onshore Ecology and Nature Conservation. Chapter 2: Historic Environment. Chapter 3: Hydrology and Elood Risk 		
A description of the relevant aspects of the current state of the environment (baseline scenario) (Schedule 4, paragraph 3).	 Chapter 5: Hydrology and Flood Risk. Chapter 4: Geology, Hydrogeology and Ground Conditions. 		
A description of the factors likely to be significantly affected by the development (Schedule 4, paragraph 4).	 Chapter 5: Trainc and Transport. Chapter 6: Noise and Vibration. Chapter 7: Air Quality. 		
A description of the likely significant effects of the development on the environment (Schedule 4, paragraph 5).	Chapter 8: Land Use and Recreation.		

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Required Information	Location within the PEIR
A description of the forecasting methods or evidence used to identify and assess the significant effects on the environment (Schedule 4, paragraph 6). A description of the measures envisaged to avoid, prevent, reduce or, if possible, offset any identified significant adverse effects on the environment (Schedule 4, paragraph 7). A description of the expected significant adverse effects of the development on the environment deriving from the vulnerability of the development to risks of major accidents and/or disasters (Schedule 4, paragraph 8).	 Volume 3: Chapter 1: Benthic Ecology. Chapter 2: Fish and Shellfish Ecology. Chapter 3: Commercial Fisheries. Chapter 4: Marine Mammals and Sea Turtles. Chapter 5: Shipping and Navigation. Chapter 6: Other Marine Users. Chapter 7: Marine Archaeology and Cultural Heritage. Chapter 8: Physical Processes. Chapter 9: Offshore Ornithology. Volume 4: Chapter 1: Climate Change. Chapter 2: Landscape, Seascape and Visual Resources. Chapter 3: Socio-economics and Tourism. Chapter 4: Human Health. Chapter 5: Inter-related Effects. In addition, effects in relation to the following are considered within the above chapters and supporting appendices as set out in Table 5.2 below: waste; underwater noise; other residues and emissions; material assets; and
Non-Technical Summary	
A non-technical summary of the information referred to in sub-paragraphs (a) to (d) (Regulation 14(2)). A non-technical summary of the information provided under requirements 1- 8 (Schedule 4, paragraph 9).	A non-technical summary is provided as a standalone document, summarising the findings of the EIA process in non-technical language.
Additional Information	1
Any additional information specified in Schedule 4 relevant to the specific characteristics of the particular development or type of development and to the environmental features likely to be significantly affected (Regulation 14(2)).	See above for Schedule 4 requirements.
A reference list detailing the sources used for the descriptions and assessments included in the Environmental Statement (Schedule 4, paragraph 10).	References are provided at the end of each chapter in this PEIR.

Other EIA Matters

5.3.9 **Table 5.2** sets out details of topics that are included within the EIA process for the Proposed Development but are presented outside of the main topic chapters of

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this PEIR (or, where not yet available, where they will be considered within the ES).

Table 5.2: Other EIA Matters

Торіс	Location within the PEIR		
Topics covered	Topics covered by appendices in the PEIR/ES		
Waste	Site Waste Management Plan (SWMP) will be included as a technical appendix to the ES. The SWMP will identify the likely waste arisings from the construction of the Proposed Development and set out appropriate measures for managing the waste in accordance with the waste hierarchy principle. These measures will include measures to reduce waste, use less harmful alternative materials, explore opportunities to use materials with recycled content, to provide appropriate waste storage, and to use licensed/registered waste carriers.		
Underwater noise	Information on underwater noise resulting from the construction, operation and maintenance, and decommissioning phases of the Proposed Development is included as an appendix of this PEIR (Volume 3, Annex 4.1: Underwater Noise Assessment). Underwater sound is not, in itself, a receptor on which an assessment can be undertaken. An increase in underwater sound is an impact that may affect other ecological receptors. Therefore, underwater sound does not have a separate PEIR chapter and impacts resulting from an increase in underwater sound are assessed in Volume 3, Chapter 2: Fish and Shellfish Ecology and Volume 3, Chapter 4: Marine Mammals and Sea Turtles, of this PEIR.		
Topics covered	in topic chapters of the PEIR		
Other residues and emissions	The potential impacts of residues and emissions (e.g., dust, pollutants, light, noise or vibration) arising from the construction, operation and maintenance, and decommissioning phases of the Proposed Development have been considered in the following topic chapters of this PEIR where relevant:		
	 Volume 3, Chapters 1, 2, 4 and 9: Benthic Ecology; Fish and Shellfish Ecology; Marine Mammals and Sea Turtles, and Offshore Ornithology (impacts of emissions to water and noise emissions on ecological receptors); 		
	 Volume 2, Chapter 4: Geology, Hydrogeology, and Ground Conditions (impacts of emissions/residues to land on soil quality); 		
	 Volume 2, Chapter 3: Hydrology and Flood Risk (impacts of surface water runoff on water quality and flood risk); 		
	 Volume 2: Chapter 1: Onshore Ecology and Nature Conservation (impacts of emissions to water, land or air and noise emissions on ecological receptors); 		
	 Volume 2, Chapter 6: Noise and Vibration (impacts of noise emissions and vibration); and 		
	 Volume 2, Chapter 7: Air Quality (impacts of emissions to air, including dust and other pollutants). 		
Material assets	The potential impacts on material assets arising from the construction, operation and maintenance, and decommissioning phases of the Proposed Development have been considered in the following topic chapters of this PEIR:		
	Volume 3, Chapter 3: Commercial Fisheries;		
	Volume 3, Chapter 5: Shipping and Navigation;		
	Volume 3, Chapter 6: Other Marine Users;		
	Volume 3, Chapter 7: Marine Archaeology and Cultural Heritage;		
	Volume 2, Chapter 2: Historic Environment; Volume 2, Chapter 2: Land Lies and Represention:		
	Volume 2, Chapter 6. Land Use and Recreation; Volume 4. Chapter 2: Social aconomics and Tourism		
Majar assistants	• volume 4, Chapter 5, Socio-economics and Tourism.		
and disasters	and maintenance, and decommissioning phases of the Proposed Development has been		

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Торіс	Location within the PEIR
	considered in the topic chapters of this PEIR. In particular, the following effects have been identified, with the chapters that they are considered in also stated:
	 a reduction in groundwater quality and quantity resulting from accidental pollution: Volume 2, Chapter 4: Geology, Hydrogeology and Ground Conditions;
	 the impact of accidental pollution on the quality of surface water and watercourses: Volume 2, Chapter 3: Hydrology and Flood Risk;
	 increased flood risk: Volume 2, Chapter 3: Hydrology and Flood Risk;
	 the vulnerability of the Proposed Development to climate change: Volume 4, Chapter 1: Climate Change;
	accidental pollution:
	 Volume 2, Chapter 1: Onshore Ecology and Nature Conservation.
	 Volume 3, Chapter 6: Shipping and Navigation; and
	 Volume 3, Chapter 1: Benthic Ecology.
	 the risk of vessel anchor and gear snagging: Volume 3, Chapter 5: Shipping and Navigation;
	• the risk of increased vessel collisions: Volume 3, Chapter 5: Shipping and Navigation;
	• a reduction of under keel clearance: Volume 3, Chapter 5: Shipping and Navigation;
	 a reduction of emergency response capability and reduced access for SAR responders: Volume 3, Chapter 5: Shipping and Navigation;
	 the impact of construction traffic on accidents and safety: Volume 2, Chapter 5: Traffic and Transport; and
	 the impact of Abnormal Indivisible Loads on safety: Volume 2, Chapter 5: Traffic and Transport.

5.3.10 As set out in Volume 1, Chapter 1: Introduction, the findings of the Habitats Regulations Assessment and the Marine Conservation Zone assessment are provided within the following reports that are provided alongside this PEIR:

- Information to Support Appropriate Assessment report; and
- Marine Conservation Zone Assessment report.

5.4 Topics Scoped out of the EIA Process

5.4.1 Effects on other aspects of the environment, not detailed above, are not likely to be significant. The topics proposed to be scoped out of the assessment were presented in the Scoping Report. The Planning Inspectorate set out its response on these matters, as set out in **Table 5.3**.

Table 5.3: Topics scoped out of the EIA process

Торіс	Agreed Position
Planning Policy	A standalone Local Planning Policy chapter has been scoped out of the EIA process on the basis that a description of the consenting process is outlined in the introductory chapters and that relevant legislation and planning policy context is outlined within each of the topic chapters. A Planning Statement will be prepared and submitted as part of the Development Consent Order (DCO) Application. The Scoping Opinion confirms that the Planning Inspectorate is content with this approach.
Sunlight, Daylight and Microclimate	In relation to daylight and sunlight, any built elements, such as the converter stations, would not be sufficiently tall or close to other buildings to result in likely significant effects. In addition, given the nature of the offshore and onshore elements of the Proposed Development, such as buried cables and limited above ground buildings and infrastructure, these are not likely to result in microclimate changes. As a result, an

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Торіс	Agreed Position
	assessment of the effects in relation to sunlight, daylight and microclimate has been scoped out of the EIA process.
	The Scoping Opinion confirms that the Planning Inspectorate is content with this approach.
	The effects of the Proposed Development on climate change are considered separately in Volume 4, Chapter 1: Climate Change.
Heat	Heat generated during the operation and maintenance of the Proposed Development (e.g. heat generated by offshore and onshore cables) are considered within the relevant topic chapters, including:
	 Volume 2, Chapter 4: Geology, Hydrogeology and Ground Conditions;
	Volume 3, Chapter 1: Benthic Ecology;
	 Volume 3, Chapter 2: Fish and Shellfish Ecology; and
	Volume 3, Chapter 3: Commercial Fisheries.
	However, activities during construction and decommissioning of the Proposed Development are unlikely to generate significant levels of heat.
	The technical specifications of the onshore converter stations will consider any heat generated within the design and this would, as is usual practice, prevent any overheating or heat effects. With these measures in place, it is not considered likely that significant effects in relation to heat will occur at the Converter Site.
Radiation	A standalone chapter addressing the impact of radiation has been scoped out of the EIA process because of the following:
	 It is considered that activities required to facilitate the construction and decommissioning of the offshore and onshore elements of the Proposed Development would generate negligible levels of EMFs.
	 Due to the distance between the converter station components and the closest publicly accessible point (the perimeter fence), the greatest EMFs exposure in the vicinity of converter stations is typically the underground cables entering and exiting them. All of the electrical infrastructure associated with the offshore and onshore elements of the Proposed Development would be designed to comply with current guidelines such as the 1988 Guidelines for Limiting Exposure to Electromagnetic Fields (International Commission on Non-ionising Radiation Protection, 1988)
	 Notwithstanding the above, is considered within the relevant chapters, including:
	 Volume 3, Chapter 1: Benthic Ecology;
	 Volume 3, Chapter 2: Fish and Shellfish Ecology;
	 Volume 3, Chapter 3: Commercial Fisheries;
	 Volume 3, Chapter 4: Marine Mammals and Sea Turtles; and
	 Volume 3, Chapter 5: Shipping and Navigation.

5.5 Approach to EIA

Introduction

5.5.1 This section outlines the approach to assessment within this PEIR for topics scoped into the EIA process.

Relevant EIA Guidance

- 5.5.2 The EIA process has taken into account relevant government or institute guidance, including:
 - National Policy Statements and other relevant national policies:

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- Overarching National Policy Statement for Energy (EN-1) (Department for Energy Security & Net Zero (DESNZ), 2023a).
- National Policy Statement for Renewable Energy Infrastructure (EN-3) (DESNZ, 2023b).
- National Policy Statement for Electricity Networks Infrastructure (EN-5) (DESNZ, 2023c).
- National Planning Policy Framework (Department for Levelling Up, Housing, Communities, 2023).
- Planning Inspectorate guidance:
 - The Planning Inspectorate Advice Note Three: EIA notification and consultation (Planning Inspectorate, 2017).
 - The Planning Inspectorate Advice Note Seven: Environmental Impact Assessment: Preliminary Environmental Information, Screening and Scoping (Planning Inspectorate, 2020a).
 - The Planning Inspectorate Advice Note Nine: Rochdale Envelope (Planning Inspectorate, 2018).
 - The Planning Inspectorate Advice Note Twelve: Transboundary Impacts and Process (Planning Inspectorate, 2020b).
 - The Planning Inspectorate Advice Note Seventeen: Cumulative effects assessment (Planning Inspectorate, 2019).
- Institute of Environmental Management and Assessment (IEMA) guidance:
 - Guidelines for Environmental Impact Assessment (IEMA, 2004).
 - Environmental Impact Assessment Guide to: Shaping Quality Development (IEMA, 2015).
 - Environmental Impact Assessment Guide to: Delivering Quality Development (IEMA, 2016).
 - Delivering Proportionate EIA, A Collaborative Strategy for Enhancing UK Environmental Impact Assessment Practice (IEMA, 2017).
- Other relevant guidance:
 - Design Manual for Roads and Bridges: Sustainability and Environmental Appraisal. LA 104: Environmental assessment and monitoring (Highways England et al., 2020).
 - Guidelines for data acquisition to support marine environmental assessments of offshore renewable energy projects (Centre for Environment, Fisheries and Aquaculture Science (Cefas), 2012).
 - Planning Practice Guidance (Department for Levelling Up, Housing and Communities and Ministry of Housing, Communities and Local Government, 2021).

Proportionate EIA

5.5.3 This PEIR has been prepared with the need for proportionate EIA in mind. Since the 1980s, as EIA practice has developed, reporting outputs have become larger. In some cases, this has resulted in an overall improvement in detail and quality.

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However, it also reflects a precautionary approach and can result in large, unwieldy documents that are difficult for the reader to digest.

- 5.5.4 IEMA recognises this concern and has developed a drive towards proportionate EIA and has published guidance in the form of its publication 'Delivering proportionate EIA' (IEMA, 2017).
- 5.5.5 The EIA process for the Proposed Development has used the following tools to deliver a proportionate approach to its EIA process.
 - Effective scoping. As set out in section 5.3, a Scoping Report was submitted to the Planning Inspectorate. This set-out topics to be scoped out of the EIA process. It also set out the scope of assessment for those environmental topics scoped in, including areas or sub-topics within each topic that can be scoped out. This has been carried forward into the EIA process.
 - **Ongoing engagement.** The Applicant's approach to stakeholder engagement throughout the EIA process allows for ongoing consideration of the necessary scope and methodologies for technical topic assessments.
 - **Mitigation Schedule.** All committed mitigation is recorded within the Mitigation Schedule. A draft Mitigation Schedule is provided in Volume 1, Appendix 3.1: Draft Mitigation Schedule. This ensures early identification of measures required and avoids repetition of these measures throughout this PEIR document.
 - **Digital outputs.** GIS mapping has been used throughout the EIA process to communicate the results of the process clearly.
- 5.5.6 All topics have been evaluated by competent experts, as required by the 2017 EIA Regulations. A statement describing the relevant expertise of each EIA team and PEIR topic authors is provided in Volume 1, Appendix 1.1: Statement of Expertise.

Identification of Design Parameters for Assessment

- 5.5.7 As set out within Volume 1, Chapter 3: Project Description, the iterative design processes remain ongoing at this time. At this stage of the EIA and consenting process, the project description for the Proposed Development is indicative.
- 5.5.8 Linear infrastructure projects, such as underground cables or overhead lines, typically require some degree of flexibility to accommodate potential changes in routeing and siting of infrastructure, which may arise from the EIA and consultation process.
- 5.5.9 As set out in Volume 1, Chapter 3: Project description, this PEIR has adopted the maximum design scenario approach, based upon the Project Design Envelope approach (also known as the Rochdale Envelope approach). This approach defines a maximum design envelope and parameters within which the final design will sit, allowing for the assessment of a realistic worst-case scenario.
- 5.5.10 The maximum design scenario approach allows flexibility for elements that are likely to require more detailed design subsequent to submission of a PEIR or ES, such as siting of infrastructure, foundation types and construction methods. It enables different project scenarios, where they may arise, to be presented and assessed for their respective potential impacts, magnitude of impact and/or different effects on receptors, where relevant. It also allows the findings of the

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consultation process and feedback from statutory and non-statutory stakeholders to be considered during the design process, where appropriate.

- 5.5.11 Furthermore, this maximum design scenario approach utilises a 'Limit of Deviation' in order to accommodate potential changes in routeing and siting of infrastructure (i.e. due to issues highlighted by the EIA process and consultation). The Limits of Deviation, which sit within the Draft Order Limits, define the maximum extent within which the development works can be carried out, allowing for a realistic worst-case assessment. For example, the proposed cable route (onshore and offshore) are defined within a Limit of Deviation (the 'Offshore Cable Corridor' and 'Onshore HVDC Cable Corridor') to provide a proportionate degree of flexibility to accommodate any changes before the final alignment and design of the Proposed Development.
- 5.5.12 Further details are provided in Volume 1, Chapter 3: Project Description of this PEIR.
- 5.5.13 Each topic chapter of this PEIR sets out the assumptions made regarding the maximum design scenario relevant to that chapter and for each impact.
- 5.5.14 The onshore chapters within Volume 2 of the PEIR consider the potential environmental impacts to the onshore environment during the construction phase, operational and maintenance phase, and decommissioning phase of the Proposed Development.
- 5.5.15 The offshore chapters within Volume 3 of the PEIR consider the potential environmental impacts to the offshore environment during the construction phase, operational phase (normal), operational phase (repair activities), decommissioning phase (assuming cable de-energised and left *in-situ*) and decommissioning phase (assuming cable removed) of the Proposed Development.
- 5.5.16 The difference between the onshore and offshore chapters in this regard is consistent with the approach set out in the Scoping Report, and is due to substantial differences in the activities taking place under different operational and decommissioning scenarios for the offshore elements. There is potential for considerable difference in the level of impact significance associated with similar activities under these different offshore operational and decommissioning scenarios. Thus, these phases have been split and are considered separately within the assessment in each of the offshore chapters within Volume 3.
- 5.5.17 Volume 1, Chapter 3: Project Description of the PEIR sets out the anticipated activities associated with all phases of the Proposed Development.

Approach to Mitigation and Monitoring

5.5.18 Mitigation measures are measures developed to avoid, prevent, reduce, or offset significant adverse environmental effects if possible. In some cases, measures are proposed that would create or enhance beneficial environmental or social effects; these are referred to as enhancement measures. Schedule 4 of the 2017 EIA Regulations requires that the EIA process identify such measures, as set out in **Table 5.1**.

Measures Adopted as Part of the Proposed Development

5.5.19 For the purposes of this PEIR, the term 'measures adopted as part of the Proposed Development is used to include measures identified during the EIA

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process to date and presented on the Mitigation Schedule. A draft Mitigation Schedule is provided in Volume 1, Appendix 3.1: Draft Mitigation Schedule, but will continue to be developed during the EIA process. This includes the following types of mitigation measures identified in the IEMA 'Guide to Shaping Quality Development' (IEMA, 2016).

- Primary (inherent) mitigation: These are measures included as part of the project design. IEMA describes these as 'modifications to the location or design of the development made during the pre-application phase that is an inherent part of the project and does not require additional action to be taken'. This includes modifications arising through the design process. These measures will be secured through the consent itself through the description of the project and the parameters secured in the Development Consent Order. For example, a reduction in footprint or height.
- Secondary (foreseeable) mitigation: IEMA describes these as 'actions that will require further activity in order to achieve the anticipated outcome'. These include measures required to reduce the significance of environmental effects (such as lighting limits) and may be secured through an environmental management plan.
- Tertiary (inexorable) mitigation: IEMA describes these as 'actions that would occur with or without input from the EIA feeding into the design process. These include actions that will be undertaken to meet other existing legislative requirements, or actions that are considered to be standard practices used to manage commonly occurring environmental effects'. It may be helpful to secure such measures through a Construction Environmental Management Plan or similar.
- 5.5.20 The development of mitigation and enhancement measures forms a key part of the iterative EIA process, whereby measures are developed throughout the EIA process in response to initial assessments and stakeholder engagement findings.
- 5.5.21 The methodology involves a 'feedback loop', where the findings of initial assessments indicate that effects may be significant, and changes are made where practicable to the project design to reduce or offset the impact. This process is repeated until the EIA practitioner is satisfied that either:
 - the effect is reduced to a level that is not significant in EIA terms; or
 - no further primary or secondary mitigation can be applied to reduce the impact magnitude (and hence the significance of the effect). In these cases, an overall effect still significant in EIA terms may be presented.
- 5.5.22 The Proposed Development assessed within this PEIR, therefore, includes a range of measures that have been designed to reduce or prevent significant adverse effects from arising. The incorporation of such measures within the design of the Proposed Development demonstrates a commitment to implementing the identified measures.
- 5.5.23 In line with guidance (IEMA, 2004), it is usual practice to assess potential impacts and consequent effects arising from a project's current design, incorporating all primary and tertiary mitigation that an applicant is committed to. Therefore, within this PEIR, primary and tertiary measures that will form part of the design of the Proposed Development (and/or are established legislative requirements/good practice) have been taken into account in the assessments presented in each topic chapter (e.g. these are embedded mitigation measures). The initial determination of impact magnitude and significance of effects, therefore, assumes

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implementation of these measures. This ensures that the measures that the Applicant is committed to are taken into account in the assessment of effects.

- 5.5.24 For secondary measures, which require further activity, both pre-mitigation and residual effects are presented (i.e. these are further mitigation measures). The assessment of residual effects, with secondary mitigation in place, is presented after the initial assessment within each topic chapter within this PEIR.
- 5.5.25 Once agreed by the Applicant, all mitigation measures are recorded in the Mitigation Schedule, which includes details of how each measure will be secured. The Applicant is actively encouraging stakeholders to propose mitigation commitments.

Enhancement

5.5.26 In some cases, the measures identified through the iterative EIA process or stakeholder consultation will result in the enhancement of environmental conditions. Enhancement measures are identified within the Mitigation Schedule (see Draft Mitigation Schedule at Volume 1, Appendix 3.1).

Monitoring

- 5.5.27 Monitoring commitments may be put in place, as necessary, to assess the effectiveness of mitigation measures and validate assessment conclusions.
- 5.5.28 All monitoring measures are recorded in the Mitigation Schedule (see Draft Mitigation Schedule at Volume 1, Appendix 3.1), with details of how each measure will be secured.

Assessment of Effects

Impacts and Effects

- 5.5.29 The Proposed Development has the potential to create a range of 'impacts' and consequent 'effects' on the physical, biological and human environment. The definitions of impact and effect used in this assessment are drawn from the Design Manual for Roads and Bridges (DMRB) LA104 (Highways England et al., 2020). The DMRB was devised for linear transport schemes but can be applied to any infrastructure project, including offshore wind farms and their associated linear cable routes. The DMRB provides overarching descriptions and matrices that can be applied to all technical topics within the EIA process. These are described further in this section.
- 5.5.30 For the purposes of the PEIR, the term 'impact' is defined as a change that is caused by an action. For example, the installation of a cable (action) is likely to require excavation of trenches (impact). Impacts can be defined as direct or indirect. They can be either positive/beneficial or adverse, although the relationship between them is not always straightforward and relies on available evidence and professional judgement.
- 5.5.31 The term 'effect' is defined as the consequence of an impact on a receptor. For example, the excavation of a cable trench (impact) results in the loss of grassland habitat (effect).

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The 'significance' of each effect is determined by considering the magnitude of the 5.5.32 impact alongside the sensitivity or importance of the receptor/receptor group in accordance with the defined significance criteria.

Defining the Sensitivity of the Receptor

- For the purpose of this PEIR, receptors are defined as the physical or biological 5.5.33 resource or human user group that could be affected by the impacts of the Proposed Development. These receptors are identified through available data and baseline studies that have been reviewed in the preparation of this PEIR.
- 5.5.34 In defining the sensitivity for each receptor, the vulnerability, recoverability and value/importance have been taken into consideration. The determination of the sensitivity of a receptor for each topic draws upon relevant external guidance and other material, including specialist knowledge relevant to that topic. Each topic chapter within this PEIR (Volumes 2, 3 and 4) sets out the definitions of sensitivity used for that assessment. Where no topic-specific guidance is available, the definitions of sensitivity are based on the definitions set out in **Table 5.4**.

Table 5.4: Ser	sitivity of receptor definitions	

Sensitivity	Definition
Very High	Very high importance and rarity, international scale and very limited potential for substitution
High	High importance and rarity, national scale and limited potential for substitution
Medium	High or medium importance and rarity, regional scale, limited potential for substitution
Low	Low or medium importance and rarity, local scale
Negligible	Very low importance and rarity, local scale

Terminology based on DMRB LA104 (Highways England et al., 2020)

Defining the Magnitude of Impacts

- For each of the impacts assessed in this PEIR, a magnitude has been assigned. 5.5.35 The magnitude of an impact considers factors such as the spatial extent, duration, frequency and reversibility of the impact from the construction, operation and maintenance, or decommissioning phases.
- The determination of the magnitude of impact for each topic draws upon relevant 5.5.36 external guidance and other material, including specialist knowledge relevant to that topic. Each topic chapter within this PEIR (Volumes 2, 3 and 4) sets out the definitions of impact magnitude used for that assessment. Where no topic-specific guidance is available, the definitions are based on the definitions set out in **Table** 5.5.

Table 5.5: Magnitude of impact definitions

Sensitivity	Definition
High	Loss of resource and/or quality and integrity of resource; severe damage to key characteristics, features or elements (Adverse).
	Large scale or major improvement or resource quality; extensive restoration or enhancement; major improvement of attribute quality (Beneficial).
Medium	Loss of resource, but not adversely affecting integrity of resource; partial loss of/damage to key characteristics, features or elements (Adverse).

Sensitivity	Definition
	Benefit to, or addition of, key characteristics, features or elements; improvement of attribute quality (Beneficial).
Low	Some measurable change in attributes, quality or vulnerability, minor loss of alteration to, one (maybe more) key characteristics, features or elements (Adverse).
	Minor benefit to, or addition of, one (maybe more) key characteristics, features or elements; some beneficial impact on attribute or a reduced risk of negative impact occurring (Beneficial).
Negligible	Very minor loss or detrimental alteration to one or more characteristics, features or elements (Adverse).
	Very minor benefit to, or positive addition of one or more characteristics, features or elements (Beneficial).
No Change	No loss or alteration of characteristics, features or elements; no observable impact either adverse or beneficial.

Terminology based on DMRB LA104 (Highways England et al., 2020)

Evaluation of Significance of Effect

5.5.37 The overall significance of an effect is evaluated by considering the magnitude of the impact and the sensitivity of receptor. Each chapter defines the approach taken to the assessment of significance. Unless set out otherwise within the topic chapter, a matrix approach has been adopted as a guide (see **Table 5.6**).

Table 5.6: Matrix used for the assessment of the significance of the effect

Sensitivity	Magnitude of Impact				
	No Change	Negligible	Low	Medium	High
Negligible	No Change	Negligible	Negligible or Minor	Negligible or Minor	Minor
Low	No Change	Negligible or Minor	Negligible or Minor	Minor	Minor or Moderate
Medium	No Change	Negligible or Minor	Minor	Moderate	Moderate or Major
High	No Change	Minor	Minor or Moderate	Moderate or Major	Major
Very high	No Change	Minor	Moderate or Major	Major	Major

Matrix based on DMRB LA104 (Highways England et al., 2020)

- 5.5.38 Where the magnitude of impact is 'no change', no effect would arise.
- 5.5.39 Professional judgement has been used to define the magnitude of impact and receptor sensitivity. The matrix has then been used, together with professional judgement, to evaluate the significance of the effect. In general, a significance of effect of moderate or greater is considered 'significant' in EIA terms. For each topic chapter within this PEIR, what is considered 'significant' is clearly defined.
- 5.5.40 In cases where a range is suggested for the significance of effect, the significance is based upon the expert's professional judgement. The broad definitions for each of the significance levels are shown in **Table 5.7**.

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Sensitivity	Definition
Major	These beneficial or adverse effects are considered to be very important considerations and are likely to be material in the decision-making process. These effects are generally, but not exclusively, associated with sites or features of international, national or regional importance that are likely to suffer a most damaging impact and loss of resource integrity. However, a major change in a site or feature of local importance may also enter this category. Effects upon human receptors may also be attributed this level of significance.
Moderate	These beneficial or adverse effects have the potential to be important and may influence the key decision-making process. The cumulative effects of such factors may influence decision-making if they lead to an increase in the overall adverse or beneficial effect on a particular resource or receptor.
Minor	These beneficial or adverse effects are generally, but not exclusively, raised as local factors. They are unlikely to be critical in the decision-making process but are important in enhancing the subsequent design of the project.
Negligible	No effects or those that are beneath levels of perception, within normal bounds of variation or within the margin of forecasting error.

Table 5.7: Definition of significance levels for the Proposed Development

Terminology based on DMRB LA104 (Highways England et al., 2020)

Addressing Uncertainty

5.5.41 There is some degree of inherent uncertainty within the EIA process. There is uncertainty in relation to future improvements to construction and design. In addition, there is uncertainty in relation to future baseline conditions, such as the potential effects of climate change on existing receptors. There is also a degree of uncertainty in terms of the margin of error within forecasting or modelling tools. The following sections set out the approach to addressing uncertainty within this PEIR. In all cases where uncertainty exists, this has been identified (and quantified where possible) within the relevant chapter of this PEIR, together with details of the measures that have been taken to reduce uncertainty as far as reasonably practicable.

Future Baseline and Assessment Years

- 5.5.42 The baseline for the assessment of environmental effects has primarily been drawn from evidence collated during the review of desktop data and any site-specific environmental surveys. Consideration has also been given to any likely changes between the time of data collection/survey and the future baseline for the construction and operation and maintenance phases of the Proposed Development. In some cases, these changes may include the construction or operation of other planned developments in the area. Where such developments are built and operational during writing and data collection, these are considered part of the baseline environment. Where sufficient and robust information is available, such as expected traffic growth figures, other future developments are considered as future baseline conditions. In all other cases, planned future developments are considered within the assessment of cumulative effects.
- 5.5.43 The consideration of future baseline conditions has taken into account the likely effects of climate change, as far as these are known at the time of writing. It is recognised that there is some element of uncertainty regarding future trends in environmental conditions and climate. Where accepted methodologies for identifying the likely effects of climate change are available, these have been considered in the assessment. For example, the Met Office Hadley Centre

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publishes probabilistic climate change projections for the UK, termed the UKCP18 dataset (Met Office Hadley Centre, 2018). Published documents such as the UK Climate Change Risk Assessment 2017 (Climate Change Committee, 2017) and subsequent updates have also been taken into account. Recent published research has also been reviewed to inform judgements on whether specific receptors are susceptible to the effects of climate change.

Forecasting and Modelling

5.5.44 Where forecasting and modelling tools are used, care has been taken to ensure that the tool selected is appropriate for the assessment, taking into account topic-specific good practice and guidance. Model assumptions are described, and calibration has been used to ensure a reasonable degree of accuracy in measurements. In addition, uncertainty has been addressed by undertaking modelling for a number of scenarios and at representative points across the Proposed Development, where applicable. Topic chapters within the PEIR set out the measures taken to address any uncertainty with regard to modelling inputs and outputs.

Assessment of Cumulative Effects

- 5.5.45 The EIA Regulations require consideration of cumulative effects, which are effects on a receptor that may arise when the Proposed Development is considered together with other proposed developments in the area.
- 5.5.46 The cumulative effects assessment (CEA) for the Proposed Developments has been undertaken in accordance with the following guidance:
 - The Planning Inspectorate's Advice Note 17 (Planning Inspectorate, 2019); and
 - Cumulative Impacts Assessment Guidelines: Guiding Principles for Cumulative Impacts Assessment in Offshore Wind Farms (Renewable UK, 2013).
- 5.5.47 Advice Note 17 recommends that CEA should take into account developments that are:
 - under construction;
 - permitted application(s), but not yet implemented;
 - submitted application(s) not yet determined;
 - projects on the National Infrastructure Planning Portal's Programme of Projects;
 - projects identified in relevant development plans; and
 - projects identified in other plans and programmes as may be relevant.
- 5.5.48 A requirement of undertaking CEA is to identify those projects, plans or activities with which the Proposed Development may interact to produce a cumulative effect. These interactions may arise within the construction, operation and maintenance or decommissioning phases. The process of identifying those projects, plans or activities for which there is the potential for an interaction to occur is referred to as 'screening'.
- 5.5.49 A process has been developed in order to methodically and transparently screen the projects, plans and activities that may be considered cumulatively alongside

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the Proposed Development and produce a 'long list'. The following factors have then been used to refine the long list to create a short list to be taken forward for each topic.

- Data confidence: data confidence has been taken into account when screening projects, plans and activities into or out of the CEA. The premise is that projects, plans and activities with a low level of detail publicly available cannot meaningfully contribute to a CEA and, as such, are screened out.
- Conceptual overlap: for a conceptual overlap to occur it must be established that an impact has the potential to directly or indirectly affect the receptor(s) in question. In EIA terms, this is described as an impact-receptor pathway and is defined here as a conceptual overlap.
- Physical overlap: a physical overlap refers to the potential for impacts arising from the Proposed Development to overlap spatially with those from other projects, plans and activities on a receptor basis. This means that, in most examples, an overlap of the physical extent of the impacts arising from two (or more) projects, plans or activities must be established for a cumulative effect to arise. Exceptions to this exist for certain mobile receptors.
- Temporal overlap: in order for a cumulative impact to arise from two or more projects, a temporal overlap of impacts arising from each must be established. It should be noted that some impacts are active only during certain phases of development, such as piling noise during construction. In these cases, it is important to establish the extent to which an overlap may occur between the specific phase of the Proposed Development and other projects, plans or activities.
- 5.5.50 All projects, plans or activities identified as being taken forward to the CEA process are 'tiered' in accordance with the guidance set out in the Planning Inspectorate's Advice Note 17 (Planning Inspectorate, 2019). This allows the level of certainty associated with the project, plan, or activity to be considered. These tiers are categorised as per the below:
 - Tier 1:
 - Under construction.
 - Permitted application(s), whether under the Planning Act 2008 or other regimes, but not yet implemented.
 - Submitted application(s) whether under the Planning Act 2008 or other regimes but not yet determined.
 - Tier 2:
 - Projects on the Planning Inspectorate's Programme of Projects where a scoping report has been submitted and is in the public domain.
 - Tier 3:
 - Projects on the Planning Inspectorate's Programme of Projects where a scoping report has not been submitted and is not in the public domain.
 - Identified in the relevant Development Plan (and emerging Development Plans – with appropriate weight being given as they move closer to adoption), recognising that there will be limited information available on the relevant proposals.

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- Identified in other plans and programmes (as appropriate) which set the framework for future development consents/approvals, where such development is reasonably likely to come forward.
- 5.5.51 Where practicable, the methodology used to assess cumulative effects follows that used to assess the effects of the Proposed Development alone. This approach is employed in order to maintain consistency throughout each topic chapter within this PEIR and to allow relevant comparisons to be made. This approach, however, differs between topic chapters according to several factors, such as the nature of the topic, the cumulative projects, plans and activities included for that topic, the data available for each project, plan and activity and the specific practicalities around undertaking CEA for that discipline. As such, while all topics have, in the first instance, aimed to undertake a full quantitative assessment, this has not been possible throughout. In select cases the assessment presented employs a mix of qualitative and quantitative or wholly qualitative assessment.
- 5.5.52 The findings of the CEA are presented in each of the topic chapters of this PEIR.

Inter-related Effects

- 5.5.53 Inter-relationships between topics may lead to a greater environmental effect in combination with each other than they otherwise would when considered in isolation. This can take the form of different impacts within the same topic through the lifetime of the Proposed Development, (construction and operation) and the effects on receptors between different topics.
- 5.5.54 The approach to the assessment of inter-related effects has been based on the Planning Inspectorate's Advice Note Nine section 4.13 (Planning Inspectorate, 2018) which states that:

'interactions [or inter-relationships] between aspect assessment includes where a number of separate impacts, eg noise and air quality, affect a single receptor such as fauna'

5.5.55 Inter-related effects are considered within this PEIR in Volume 4, Chapter 5: Interrelated Effects, of the PEIR.

Transboundary Effects

- 5.5.56 Transboundary effects arise when impacts from a project within one European Economic Area (EEA) state affect the environment of another state(s). The need to consider such transboundary effects has been embodied by the United Nations Economic Commission for Europe Convention on EIA in a Transboundary Context (commonly referred to as the 'Espoo Convention'). The Espoo Convention requires that assessments are extended across borders between parties of the Espoo Convention when a planned activity may cause significant adverse transboundary effects.
- 5.5.57 The Planning Inspectorate's Advice Note Twelve (Planning Inspectorate, 2020b) sets out the procedures for consultation in association with an application for development consent, where such development may have significant transboundary effects. The note sets out the roles of the Planning Inspectorate, other states and developers.
- 5.5.58 Applicants are advised to:

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- consider, when preparing documents for consultation and application, that the Planning Inspectorate may notify the relevant state of their particular project;
- carry out preparatory work to complete a transboundary screening matrix to assist the Secretary of State in determining the potential for likely significant impacts on the environment in other states; and
- submit the transboundary screening matrix along with the scoping request, if a Scoping Opinion is sought by the developer (a transboundary impacts screening matrix was submitted with the EIA Scoping Report for the Proposed Development).
- 5.5.59 The Applicant has notified the Planning Inspectorate of the potential for transboundary impacts arising from the Proposed Development through the request for a Scoping Opinion.
- 5.5.60 The identification and screening of transboundary impacts is presented in Volume 1, Appendix 5.2: Transboundary Screening. An update to the transboundary screening work will be presented within the ES. The updated transboundary screening in the ES will consider up to date project information, consultation responses and the outcomes of the EIA process.
- 5.5.61 Where relevant, the assessment of transboundary effects for each receptor group is included in the relevant topic chapters of this PEIR.

Next Steps

5.5.62 This PEIR provides a preliminary view on the likely significant effects and the appropriate methodologies to assess and address those effects. The EIA process is ongoing and, therefore, the development of the design and appropriate mitigation, monitoring and enhancement measures for the Proposed Development will be refined alongside the continued assessment and taking into account the consultation responses received. The findings will be reported in the ES, forming part of the DCO Application .

5.6 References

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